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August 30, 2016

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Mrs. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is the Monthly Fuel Report in Docket No. 2006-176-E for the month of July 2016.

Should you have any questions regarding this matter, please do not hesitate to contact me at 704-382-4499.

Sincerely,

Charles A. Castle

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Rjts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

**Duke Energy Progress
Summary of Monthly Fuel Report**

Schedule 1

Line No.	Item	July 2016
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 176,005,810
	MWH sales:	6,715,874
2	Total System Sales	575,402
3	Less intersystem sales	<u>6,140,472</u>
4	Total sales less intersystem sales	<u>2.8663</u>
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	<u>2.3588</u>
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	<u>2.3588</u>
	 Generation Mix (MWH):	
	Fossil (By Primary Fuel Type)	
7	Coal	1,860,398
8	Oil	3,515
9	Natural Gas - Combustion Turbine	331,768
10	Natural Gas - Combined Cycle	1,784,839
11	Total Fossil	<u>3,980,520</u>
12	Nuclear	2,629,182
13	Hydro - Conventional	25,964
14	Solar Distributed Generation	8,613
15	Total MWH generation	6,644,279

Note: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description	July 2016
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0456949 coal blending merger savings	\$ (279,759)
0501016 coal procurement merger savings	850,584
0501110 coal consumed - steam	63,490,124
0501310 fuel oil consumed - steam	403,669
Total Steam Generation - Account 501	64,464,618
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	17,597,643
0518500 nuclear fuel savings	36
0518600 - Disposal Cost	-
Total Nuclear Generation - Account 518	17,597,679
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	14,101,302
0547000 natural gas consumed - Combined Cycle	50,569,577
0547123 gas capacity merger savings	(76,189)
0547200 fuel oil consumed	53,975
Total Other Generation - Account 547	64,648,666
Fuel and fuel-related component of purchased power - Account 555	41,671,093
Less fuel and fuel-related costs recovered through intersystem sales - Account 447	14,923,201
Total Costs Included in Base Fuel Component	\$ 173,458,855
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 10,514
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	2,884,997
0502160 reagent procurement merger savings	7,554
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	284,729
Less emissions expense recovered through intersystem sales - Account 447	71,381
Total Costs Included in Environmental Component	2,546,955
Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 176,005,810
DERP Incremental Costs	(48,165)
Total Fuel and Fuel-related Costs	\$ 175,957,645

Notes: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

JULY 2016

**Schedule 3, Purchases
Page 1 of 2**

Purchased Power	Total	Capacity		Non-capacity		
Marketers, Utilities, Other	\$	mW	\$	mWh	Fuel \$	Non-fuel \$
Broad River Energy, LLC.	\$ 17,279,321	837	\$ 10,746,203	130,764	\$ 6,533,118	-
City of Fayetteville	3,424,410	220	3,016,750	6,772	407,660	-
Haywood EMC	29,650	7	29,650	-	-	-
NCEMC	7,955,230	513	5,348,096	66,317	2,607,134	-
PJM Interconnection, LLC.	(3)	-	-	-	(3)	-
Smurfit Stone Container Corp	23,223	-	-	753	23,223	-
Southern Company Services	4,878,441	150	1,621,620	103,974	3,256,821	-
DE Carolinas - Native Load Transfer	2,170,732	-	-	76,154	2,156,293	\$ 14,439
DE Carolinas - Native Load Transfer Benefit	79,299	-	-	-	79,299	-
Generation Imbalance	29,131			1,226	17,770	11,361
	\$ 35,869,434	1,727	\$ 20,762,319	385,960	\$ 15,081,315	\$ 25,800
Act 236 PURPA Purchases						
Renewable Energy	\$ 21,437,349	-	-	278,065	\$ 21,261,735	\$ 175,614
Other Qualifying Facilities	5,328,043	-	-	62,698	5,328,043	-
	\$ 26,765,392	-	\$ -	340,763	\$ 26,589,778	\$ 175,614
Total Purchased Power	\$ 62,634,826	1,727	\$ 20,762,319	726,723	\$ 41,671,093	\$ 201,414

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
 INTERSYSTEM SALES*
 SOUTH CAROLINA

JULY 2016

Schedule 3, Sales
 Page 2 of 2

Sales	Total	Capacity		Non-capacity		
	\$	mW	\$	mWh	Fuel \$	Non-fuel \$
Utilities:						
SC Electric & Gas - Emergency	\$ 43,245	-	-	741	\$ 34,524	\$ 8,721
Market Based:						
NCEMC Purchase Power Agreement	1,405,985	150	652,500	19,454	570,569	182,916
PJM Interconnection, LLC.	284,617	-	-	6,118	227,375	57,242
Other:						
DE Carolinas - Native Load Transfer Benefit	541,068	-	-	-	541,068	-
DE Carolinas - Native Load Transfer	15,007,997	-	-	546,705	13,838,752	1,169,245
Generation Imbalance	91,955	-	-	2,384	67,023	24,932
Total Intersystem Sales	\$ 17,374,867	150	\$ 652,500	575,402	\$ 15,279,311	\$ 1,443,056

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

**Duke Energy Progress
Over / (Under) Recovery of Fuel Costs
July 2016**

**Schedule 4
Page 1 of 2**

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					6,140,471,924
2	DERP Net Metered kWh generation	Input					32,837
3	Adjusted System kWh sales	L1 + L2					6,140,504,761
4	Actual S.C. Retail kWh sales	Input	212,284,882	31,241,264	345,494,239	7,789,193	596,809,578
5	DERP Net Metered kWh generation	Input	30,082	2,754	-		32,837
6	Adjusted S.C. Retail kWh sales	L4 + L5	212,314,964	31,244,018	345,494,239	7,789,193	596,842,415
7	Actual S.C. Demand units (kw)	L32 / 31b *100			704,833		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$166,384,128
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$1,194
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$166,385,321
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10/L3* 100					2.710
12	S.C. Retail portion of adjusted incurred system expense	L6* L11/100	\$5,752,962	\$846,599	\$9,361,636	\$211,059	\$16,172,256
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$703)	(\$68)	(\$423)	\$0	(\$1,194)
14	S.C. Retail portion of Incurred system expense	L12+L13	\$5,752,259	\$846,531	\$9,361,213	\$211,059	\$16,171,062
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.229	2.229	2.229	2.229	2.229
16	Billed base fuel - non-capacity revenue	L4* L15/100	\$4,731,357	\$696,368	\$7,701,067	\$173,621	\$13,302,413
17	DERP NEM Incentive - fuel component	Input	(\$173)	(\$17)	(\$104)	\$0	(\$293)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16+L17	\$4,731,184	\$696,351	\$7,700,963	\$173,621	\$13,302,120
19	S.C. base fuel - non-capacity over/(under) recovery	L18-L14	(\$1,021,075)	(\$150,180)	(\$1,660,251)	(\$37,438)	(\$2,868,943)
20	Adjustment - Docket 2016-1-E	Input	\$0	\$0	\$0	\$0	\$0
21	Total S.C. base fuel - non-capacity over/(under) recovery	L19 + L20	(\$1,021,075)	(\$150,180)	(\$1,660,251)	(\$37,438)	(\$2,868,943)
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23/L4* 100	0.191	0.126			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L9* 100			35		
23	Incurred S.C. base fuel - capacity expense	Input	\$404,948	\$39,216	\$243,450		\$687,614
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.181	0.128			
24b	Billed base fuel - capacity rate (¢/kW)	Input			30		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$383,396	\$39,989	\$211,318	\$0	\$634,703
26	S.C. base fuel - capacity over/(under) recovery	L25- L23	(\$21,552)	\$773	(\$32,132)	\$0	(\$52,911)
27	Adjustment - Docket 2016-1-E	Input					\$0
28	Total S.C. base fuel - capacity over/(under) recovery	L26 + L27	(\$21,552)	\$773	(\$32,132)	\$0	(\$52,911)
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30/ L4* 100	0.069	0.045			
29b	Incurred environmental rate (¢/kW)	L30/ L7* 100			12		
30	Incurred S.C. environmental expense	Input	\$145,784	\$14,118	\$87,644		\$247,546
31a	Billed environmental rates by class (¢/kWh)	Input	0.042	0.031			
31b	Billed environmental rate (¢/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a* L4 /100	\$88,476	\$9,685	\$42,290		\$140,451
33	S.C. environmental over/(under) recovery	L32-L30	(\$57,308)	(\$4,433)	(\$45,354)	\$0	(\$107,095)
34	Adjustment - Docket 2016-1-E	Input					\$0
35	Total S.C. environmental over/(under) recovery	L33+ L34	(\$57,308)	(\$4,433)	(\$45,354)	\$0	(\$107,095)
36	Total over / (under) recovery	L21 + L28 + L35	(\$1,099,935)	(\$153,840)	(\$1,737,737)	(\$37,438)	(\$3,028,950)

**Duke Energy Progress
Over / (Under) Recovery of Fuel Costs
July 2016**

**Schedule 4
Page 2 of 2**

Year 2016-2017

Cumulative over / (under) recovery
Balance ending February 2016

March 2016 • actual

J/2 April 2016 • actual

May 2016 • actual

J/2 June 2016 • actual

July 2016 • actual

J/3 August 2016 • forecast

J/3 September 2016 • forecast

J/3 October 2016 • forecast

J/3 November 2016 • forecast

J/3 December 2016 • forecast

J/3 January 2017 • forecast

J/3 February 2017 • forecast

J/3 March 2017 • forecast

J/3 April 2017 • forecast

J/3 May 2017 • forecast

J/3 June 2016 • forecast

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Subtotal	Prior Period Adjustments	Total
	(8,178,450)							
	(5,113,937)	\$1,257,169	\$149,823	\$1,614,366	\$43,155	\$3,064,513	\$0	\$3,064,513
	(2,862,055)	\$579,097	\$91,208	\$1,546,143	\$35,434	\$2,251,882	\$0	\$2,251,882
	(2,055,487)	\$166,326	\$33,470	\$597,607	\$9,165	\$806,568	\$0	\$806,568
	(1,637,768)	\$134,334	\$21,348	\$171,533	\$18,077	\$345,292	\$72,427	\$417,719
	(4,666,718)	(\$1,099,935)	(\$153,840)	(\$1,737,737)	(\$37,438)	(\$3,028,950)	\$0	(\$3,028,950)
	(5,167,053)	(\$140,784)	(\$17,519)	(\$334,425)	(\$7,607)	(\$500,335)	\$0	(\$500,335)
	(5,082,850)	(\$4,830)	\$4,761	\$83,877	\$395	\$84,203	\$0	\$84,203
	(5,312,835)	(\$107,158)	(\$7,034)	(\$112,301)	(\$3,492)	(\$229,985)	\$0	(\$229,985)
	(4,646,590)	\$224,014	\$27,434	\$404,763	\$10,034	\$666,245	\$0	\$666,245
	(4,297,267)	\$176,769	\$9,346	\$158,553	\$4,655	\$349,323	\$0	\$349,323
	(4,148,653)	\$119,723	(\$533)	\$27,580	\$1,844	\$148,614	\$0	\$148,614
	(4,380,115)	(\$74,731)	(\$15,050)	(\$139,058)	(\$2,623)	(\$231,462)	\$0	(\$231,462)
	(5,409,134)	(\$366,744)	(\$41,629)	(\$606,401)	(\$14,245)	(\$1,029,019)	\$0	(\$1,029,019)
	(5,592,783)	(\$129,395)	(\$6,229)	(\$46,483)	(\$1,542)	(\$183,649)	\$0	(\$183,649)
	(4,547,670)	\$252,872	\$51,369	\$723,562	\$17,310	\$1,045,113	\$0	\$1,045,113
	(4,387,408)	\$48,159	\$8,814	\$100,732	\$2,557	\$160,262	\$0	\$160,262

Line No.

Distributed Energy Resource Program component of recovery: incremental costs

Residential	Commercial	Industrial	Total
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37	Incurred S.C. DERP incremental expense	Input	(\$28,365)	(\$12,454)	(\$7,346)	(\$48,165)
38	Billed S.C. DERP incremental rates by account (\$/account)	Input	0.35	0.70	62.56	
39	Billed S.C. DERP incremental revenue	Input	\$48,240	\$22,567	\$16,418	\$87,225
40	S.C. DERP incremental over/(under) recovery	L38- L37	\$76,605	\$35,021	\$23,764	\$135,390
41	Adjustment	Input	\$0	\$0	\$0	\$0
42	Total S.C. DERP incremental over/(under) recovery	L40+L41	\$76,605	\$35,021	\$23,764	\$135,390

Year 2016-2017

Cumulative over / (under) recovery

Balance ending February 2016

March 2016 • actual

J/2 April 2016 • actual

May 2016 • actual

June 2016 • actual

July 2016 • actual

J/3 August 2016 • forecast

J/3 September 2016 • forecast

J/3 October 2016 • forecast

J/3 November 2016 • forecast

J/3 December 2016 • forecast

J/3 January 2017 • forecast

J/3 February 2017 • forecast

J/3 March 2017 • forecast

J/3 April 2017 • forecast

J/3 May 2017 • forecast

J/3 June 2016 • forecast

	Cumulative	Residential	Commercial	Industrial	Subtotal	Prior Period Adjustments	Total
	(409,036)						
	(332,983)	\$47,587	\$24,676	\$3,790	\$76,053	\$0	\$76,053
	(239,880)	\$57,498	\$29,093	\$6,512	\$93,103	\$0	\$93,103
	(230,645)	\$8,264	\$7,454	(\$6,483)	\$9,235	\$0	\$9,235
	(363,127)	(\$75,641)	(\$29,326)	(\$27,515)	(\$132,482)	\$0	(\$132,482)
	(227,737)	\$76,605	\$35,021	\$23,764	\$135,390	\$0	\$135,390
	(228,555)	(\$1,121)	(\$294)	\$597	(\$818)	\$0	(\$818)
	(229,370)	(\$1,112)	(\$266)	\$563	(\$815)	\$0	(\$815)
	(230,148)	(\$1,115)	(\$309)	\$646	(\$778)	\$0	(\$778)
	(230,965)	(\$1,107)	(\$323)	\$613	(\$817)	\$0	(\$817)
	(231,628)	(\$1,044)	(\$299)	\$680	(\$663)	\$0	(\$663)
	(231,726)	(\$729)	(\$118)	\$749	(\$98)	\$0	(\$98)
	(231,017)	(\$173)	\$102	\$780	\$709	\$0	\$709
	(230,237)	(\$110)	\$110	\$780	\$780	\$0	\$780
	(229,531)	(\$82)	\$74	\$714	\$706	\$0	\$706
	(228,954)	(\$189)	\$36	\$730	\$577	\$0	\$577
	(228,322)	(\$158)	\$76	\$714	\$632	\$0	\$632

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

J/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.

J/2 Includes prior period adjustments.

J/3 Forecast amounts based on low end of range of expected fuel rates.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
July 2016**

Schedule 5
Page 1 of 2

Line No.	Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased (\$)									
1	Coal	-	-	-	-	\$3,407,381	-	\$23,984,416	\$1,184,698
2	Oil	-	-	-	15,141	-	-	138,438	180,537
3	Gas - CC	-	17,726,387	13,439,517	-	-	-	-	-
4	Gas - CT	24	-	-	-	-	1,662,236	-	-
5	Total	\$24	\$17,726,387	\$13,439,517	\$15,141	\$3,407,381	\$1,662,236	\$24,122,854	\$1,365,235
Average Cost of Fuel Purchased (¢/MBTU)									
6	Coal	-	-	-	-	289.11	-	305.22	391.09
7	Oil	-	-	-	1,477.17	-	-	1,014.64	1,010.39
8	Gas - CC	-	403.45	457.23	-	-	-	-	-
9	Gas - CT	-	-	-	-	-	377.88	-	-
10	Weighted Average	-	403.45	457.23	1,477.17	289.11	377.88	306.45	425.59
Cost of Fuel Burned (\$)									
11	Coal	-	-	-	-	\$6,451,123	-	\$45,601,728	\$11,437,273
12	Oil - CC	-	-	-	-	-	-	-	-
13	Oil - Steam/CT	14,276	-	2,800	-	69,133	1,313	162,403	172,133
14	Gas - CC	-	17,726,387	13,439,517	-	-	-	-	-
15	Gas - CT	24	-	-	-	-	1,662,236	-	-
16	Nuclear	-	-	-	3,588,167	-	-	-	-
17	Total	\$14,299	\$17,726,387	\$13,442,317	\$3,588,167	\$6,520,255	\$1,663,549	\$45,764,131	\$11,609,406
Average Cost of Fuel Burned (¢/MBTU)									
18	Coal	-	-	-	-	312.39	-	331.90	354.72
19	Oil - CC	-	-	-	-	-	-	-	-
20	Oil - Steam/CT	1,560.66	-	2,021.60	-	1,421.65	1,421.65	995.66	998.49
21	Gas - CC	-	403.45	457.23	-	-	-	-	-
22	Gas - CT	-	-	-	-	-	377.88	-	-
23	Nuclear	-	-	-	60.49	-	-	-	-
24	Weighted Average	1,563.24	403.45	457.30	60.49	315.00	378.10	332.69	358.15
Average Cost of Generation (¢/kWh)									
25	Coal	-	-	-	-	3.94	-	3.31	3.57
26	Oil - CC	-	-	-	-	-	-	-	-
27	Oil - Steam/CT	-	-	-	-	17.87	16.30	9.98	10.06
28	Gas - CC	-	2.92	3.25	-	-	-	-	-
29	Gas - CT	-	-	-	-	-	4.35	-	-
30	Nuclear	-	-	-	0.65	-	-	-	-
31	Weighted Average	-	2.92	3.25	0.65	3.97	4.36	3.32	3.61
Burned MBTU's									
32	Coal	-	-	-	-	2,065,073	-	13,739,399	3,224,268
33	Oil - CC	-	-	-	-	-	-	-	-
34	Oil - Steam/CT	915	-	139	-	4,863	92	16,311	17,239
35	Gas - CC	-	4,393,728	2,939,349	-	-	-	-	-
36	Gas - CT	-	-	-	-	-	439,881	-	-
37	Nuclear	-	-	-	5,931,734	-	-	-	-
38	Total	915	4,393,728	2,939,488	5,931,734	2,069,936	439,973	13,755,710	3,241,508
Net Generation (mWh)									
39	Coal	-	-	-	-	163,938	-	1,376,468	319,991
40	Oil - CC	-	-	-	-	-	-	-	-
41	Oil - Steam/CT	(63)	-	(44)	-	387	8	1,628	1,711
42	Gas - CC	-	607,056	414,065	-	-	-	-	-
43	Gas - CT	-	-	-	-	-	38,172	-	-
44	Nuclear	-	-	-	551,596	-	-	-	-
45	Hydro (Total System)	-	-	-	-	-	-	-	-
46	Solar (Total System)	-	-	-	-	-	-	-	-
47	Total	(63)	607,056	414,021	551,596	164,325	38,180	1,378,096	321,702
Cost of Reagents Consumed (\$)									
48	Ammonia	-	-	-	-	-	-	\$421,581	\$84,718
49	Limestone	-	-	-	-	167,516	-	1,191,869	312,880
50	Sorbents	-	-	-	-	-	-	414,857	154,026
51	Urea	-	-	-	-	117,643	-	-	-
52	Total	-	-	-	-	285,158	-	2,028,288	551,624

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Fuel cost information on this report does not reflect intercompany sharing of fuel-related merger savings between Duke Energy Carolinas and Duke Energy Progress.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
July 2016**

Schedule 5
Page 2 of 2

Line No.	Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME July 2016
Cost of Fuel Purchased (\$)									
1	Coal	-	-	-	-	-	-	\$28,576,495	\$384,151,591
2	Oil	(8,423)	143,948	1,653	-	-	8,311	479,605	17,633,048
3	Gas-CC	-	-	-	-	19,403,673	-	50,569,577	558,070,529
4	Gas-CT	-	-	1,163,050	1,699,842	9,576,151	-	14,101,302	134,248,441
5	Total	(\$8,423)	143,948	\$1,164,703	\$1,699,842	\$28,979,824	8,311	\$93,726,980	\$1,094,103,609
Average Cost of Fuel Purchased (¢/MBTU)									
6	Coal	-	-	-	-	-	-	305.98	326.05
7	Oil	-	1,008.89	-	-	-	812.41	1,002.77	1,088.01
8	Gas-CC	-	-	-	-	361.78	-	398.30	398.16
9	Gas-CT	-	-	376.18	360.51	361.66	-	364.52	351.16
10	Weighted Average	-	1,008.89	376.71	360.51	361.74	812.41	361.15	367.35
Cost of Fuel Burned (\$)									
11	Coal	-	-	-	-	-	-	\$63,490,124	\$363,117,463
12	Oil-CC	-	-	-	-	-	-	-	498,371
13	Oil - Steam/CT	-	6,612	12,703	-	16,270	-	457,644	16,425,290
14	Gas-CC	-	-	-	-	19,403,673	-	50,569,577	558,070,529
15	Gas-CT	-	-	1,163,050	1,699,842	9,576,151	-	14,101,302	134,248,441
16	Nuclear	9,038,198	-	-	-	-	4,971,278	17,597,643	199,254,956
17	Total	\$9,038,198	\$6,612	\$1,175,753	\$1,699,842	\$28,996,094	\$4,971,278	\$146,216,290	\$1,271,615,050
Average Cost of Fuel Burned (¢/MBTU)									
18	Coal	-	-	-	-	-	-	333.65	330.75
19	Oil-CC	-	-	-	-	-	-	-	2,096.64
20	Oil - Steam/CT	-	1,667.81	1,799.70	-	1,677.01	-	1,099.28	1,390.83
21	Gas-CC	-	-	-	-	361.78	-	398.30	398.16
22	Gas-CT	-	-	376.18	360.51	361.66	-	364.52	351.16
23	Nuclear	62.96	-	-	-	-	67.75	63.70	63.38
24	Weighted Average	62.96	1,667.81	379.42	360.51	361.90	67.75	231.13	210.61
Average Cost of Generation (¢/kWh)									
25	Coal	-	-	-	-	-	-	3.41	3.54
26	Oil-CC	-	-	-	-	-	-	-	24.18
27	Oil - Steam/CT	-	-	20.52	-	19.18	-	13.02	18.45
28	Gas-CC	-	-	-	-	2.54	-	2.83	2.85
29	Gas-CT	-	-	4.28	4.72	4.16	-	4.25	3.87
30	Nuclear	0.65	-	-	-	-	0.72	0.67	0.66
31	Weighted Average	0.65	-	4.31	4.75	2.92	0.72	2.20	1.97
Burned MBTU's									
32	Coal	-	-	-	-	-	-	19,028,740	109,787,142
33	Oil-CC	-	-	-	-	-	-	-	23,770
34	Oil - Steam/CT	-	396	706	-	970	-	41,631	1,180,968
35	Gas-CC	-	-	-	-	5,363,415	-	12,696,492	140,162,997
36	Gas-CT	-	-	309,176	471,514	2,647,839	-	3,868,409	38,229,849
37	Nuclear	14,356,464	-	-	-	-	7,337,224	27,625,422	314,397,368
38	Total	14,356,464	396	309,882	471,514	8,012,224	7,337,224	63,260,695	603,782,093
Net Generation (MWh)									
39	Coal	-	-	-	-	-	-	1,860,398	10,258,944
40	Oil-CC	-	-	-	-	-	-	-	2,061
41	Oil - Steam/CT	-	(22)	62	(236)	85	-	3,515	89,035
42	Gas-CC	-	-	-	-	763,718	-	1,784,839	19,591,230
43	Gas-CT	-	-	27,191	36,015	230,390	-	331,768	3,466,594
44	Nuclear	1,382,543	-	-	-	-	695,043	2,629,182	30,276,641
45	Hydro (Total System)	-	-	-	-	-	-	25,964	628,772
46	Solar (Total System)	-	-	-	-	-	-	8,613	99,441
47	Total	1,382,543	(22)	27,253	35,779	994,193	695,043	6,644,279	64,412,718
Cost of Reagents Consumed (\$)									
48	Ammonia	-	-	-	-	\$19,927	-	\$526,206	\$2,933,727
49	Limestone	-	-	-	-	-	-	1,672,265	8,934,463
50	Sorbents	-	-	-	-	-	-	568,883	3,701,458
51	Urea	-	-	-	-	-	-	117,643	1,020,419
52	Total	-	-	-	-	19,927	-	2,884,997	16,590,067

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
July 2016

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Line No.	Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:						
1	Beginning balance	-	-	-	-	114,832
2	Tons received during period	-	-	-	-	46,258
3	Inventory adjustments	-	-	-	-	-
4	Tons burned during period	-	-	-	-	82,045
5	Ending balance	-	-	-	-	79,045
6	MBTUs per ton burned	-	-	-	-	25.17
7	Cost of ending inventory (\$/ton)	-	-	-	-	78.63
Oil Data:						
8	Beginning balance	677,370	-	2,717,849	68,814	3,154,309
9	Gallons received during period	-	-	-	7,430	-
10	Miscellaneous use and adjustments	(88)	-	-	(3,624)	(4,306)
11	Gallons burned during period	6,535	-	1,005	-	36,048
12	Ending balance	670,747	-	2,716,844	72,620	3,113,955
13	Cost of ending inventory (\$/gal)	2.18	-	3.02	2.70	1.95
Gas Data:						
14	Beginning balance	-	-	-	-	-
15	MCF received during period	-	4,264,148	2,852,808	-	424,300
16	MCF burned during period	-	4,264,148	2,852,808	-	424,300
17	Ending balance	-	-	-	-	-
Limestone/Lime Data:						
18	Beginning balance	-	-	-	-	22,316
19	Tons received during period	-	-	-	-	1,044
20	Inventory adjustments	-	-	-	-	-
21	Tons consumed during period	-	-	-	-	4,390
22	Ending balance	-	-	-	-	18,970
23	Cost of ending inventory (\$/ton)	-	-	-	-	36.22

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
July 2016

Schedule 6
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Line No.	Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:						
1	Beginning balance	1,085,668	640,525	-	-	-
2	Tons received during period	309,466	11,709	-	-	-
3	Inventory adjustments	-	-	-	-	-
4	Tons burned during period	547,247	137,273	-	-	-
5	Ending balance	847,887	514,961	-	-	-
6	MBTUs per ton burned	25.11	23.49	-	-	-
7	Cost of ending inventory (\$/ton)	83.32	83.32	-	-	-
Oil Data:						
8	Beginning balance	469,916	292,893	184,345	718,226	11,872,137
9	Gallons received during period	98,873	129,475	-	103,390	-
10	Miscellaneous use and adjustments	(7,639)	(9,180)	-	-	-
11	Gallons burned during period	118,414	125,061	8,487	2,822	5,124
12	Ending balance	442,736	288,127	175,858	818,794	11,867,013
13	Cost of ending inventory (\$/gal)	1.37	1.38	2.95	2.34	2.48
Gas Data:						
14	Beginning balance	-	-	-	-	-
15	MCF received during period	-	-	-	-	298,059
16	MCF burned during period	-	-	-	-	298,059
17	Ending balance	-	-	-	-	-
Limestone/Lime Data:						
18	Beginning balance	77,944	20,087	-	-	-
19	Tons received during period	31,286	6,245	-	-	-
20	Inventory adjustments	-	-	-	-	-
21	Tons consumed during period	34,036	9,473	-	-	-
22	Ending balance	75,194	16,859	-	-	-
23	Cost of ending inventory (\$/ton)	32.19	28.21	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
July 2016

Schedule 6
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Line No.	Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME July 2016
Coal Data:						
1	Beginning balance	-	-	-	1,841,025	1,206,681
2	Tons received during period	-	-	-	367,433	4,726,482
3	Inventory adjustments	-	-	-	-	(95,406)
4	Tons burned during period	-	-	-	766,565	4,395,864
5	Ending balance	-	-	-	1,441,893	1,441,893
6	MBTUs per ton burned	-	-	-	24.82	24.98
7	Cost of ending inventory (\$/ton)	-	-	-	83.06	83.06
Oil Data:						
8	Beginning balance	10,155,770	7,873,229	282,475	38,467,333	35,863,132
9	Gallons received during period	-	-	7,416	346,584	11,743,961
10	Miscellaneous use and adjustments	-	-	-	(24,837)	(302,641)
11	Gallons burned during period	-	6,930	-	310,426	8,825,798
12	Ending balance	10,155,770	7,866,299	289,891	38,478,654	38,478,654
13	Cost of ending inventory (\$/gal)	2.44	2.35	2.95	2.42	2.42
Gas Data:						
14	Beginning balance	-	-	-	-	-
15	MCF received during period	458,195	7,776,013	-	16,073,523	172,369,241
16	MCF burned during period	458,195	7,776,013	-	16,073,523	172,369,241
17	Ending balance	-	-	-	-	-
Limestone/Lime Data:						
18	Beginning balance	-	-	-	120,347	77,694
19	Tons received during period	-	-	-	38,575	280,061
20	Inventory adjustments	-	-	-	-	11,405
21	Tons consumed during period	-	-	-	47,899	258,137
22	Ending balance	-	-	-	111,023	111,023
23	Cost of ending inventory (\$/ton)	-	-	-	32.27	32.27

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
JULY 2016**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	\$ -	-
	CONTRACT	46,258	3,280,002	70.91
	ADJUSTMENTS	-	127,379	-
	TOTAL	46,258	3,407,381	73.66
MAYO	SPOT	-	-	-
	CONTRACT	11,709	1,011,431	86.38
	ADJUSTMENTS	-	173,267	-
	TOTAL	11,709	1,184,698	101.18
ROXBORO	SPOT	-	-	-
	CONTRACT	309,466	23,123,305	74.72
	ADJUSTMENTS	-	861,111	-
	TOTAL	309,466	23,984,416	77.50
ALL PLANTS	SPOT	-	-	-
	CONTRACT	367,433	27,414,737	74.61
	ADJUSTMENTS	-	1,161,758	-
	TOTAL	367,433	\$ 28,576,495	\$ 77.77

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
JULY 2016**

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.23	9.03	12,739	2.17
MAYO	6.10	7.85	12,935	2.83
ROXBORO	6.37	8.79	12,696	2.13

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
JULY 2016**

	BLEWETT	MAYO	HARRIS
VENDOR	Indigo	Greensboro Tank Farm	Selma Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	103,390	129,475	7,416
TOTAL DELIVERED COST	\$ 143,948	\$ 180,536	\$ 8,311
DELIVERED COST/GALLON	\$ 1.39	\$ 1.39	\$ 1.12
BTU/GALLON	138,000	138,000	138,000
	ROBINSON	ROXBORO	
VENDOR	Selma Tank Farm	Greensboro Tank Farm	
SPOT/CONTRACT	Contract	Contract	
SULFUR CONTENT %	0	0	
GALLONS RECEIVED	7,430	98,873	
TOTAL DELIVERED COST	\$ 15,141	\$ 138,438	
DELIVERED COST/GALLON	\$ 2.04	\$ 1.40	
BTU/GALLON	138,000	138,000	

Note:

A price adjustment of \$(8,423) for the Brunswick station and sampling charges of \$1,653 for the Wayne County station are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 - July, 2016
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,248,288	938	87.97	87.77
Brunswick 2	8,138,729	932	99.41	99.48
Harris 1	8,346,240	928	102.39	99.82
Robinson 2	6,543,384	741	100.53	96.48

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 through July, 2016
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,325,648	196	76.96	92.15
Lee Energy Complex	1B	1,350,068	195	78.78	93.04
Lee Energy Complex	1C	1,378,389	197	79.54	95.87
Lee Energy Complex	ST1	2,533,237	378	76.21	83.66
Lee Energy Complex	Block Total	6,587,342	967	77.56	89.83
Richmond County CC	7	1,243,052	172	82.25	91.70
Richmond County CC	8	1,232,522	170	82.40	92.13
Richmond County CC	ST4	1,399,195	169	94.17	91.92
Richmond County CC	9	1,419,372	193	83.74	93.65
Richmond County CC	10	1,421,419	193	83.87	93.32
Richmond County CC	ST5	1,855,221	248	85.05	89.18
Richmond County CC	Block Total	8,570,781	1,146	85.16	91.98
Sutton Energy Complex	1A	1,336,039	198	76.78	93.10
Sutton Energy Complex	1B	1,404,936	198	80.74	93.70
Sutton Energy Complex	ST1	1,694,192	265	72.71	92.30
Sutton Energy Complex	Block Total	4,435,167	662	76.33	92.86

Units in commercial operation for the full month are presented.
Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 through July, 2016**

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Roxboro 2	2,828,090	672	47.92	89.03

Units in commercial operation for the full month are presented.
Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 through July, 2016**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,892,001	735	29.31	86.43
Roxboro 3	1,519,567	694	24.93	70.83
Roxboro 4	1,637,527	703	26.50	88.16

Units in commercial operation for the full month are presented.
Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 through July, 2016
Other Cycling Steam Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	608,217	191	36.30	76.80
Asheville	2	652,917	188	39.45	93.60
Roxboro	1	1,180,068	379	35.41	98.47

Units in commercial operation for the full month are presented.
Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
August, 2015 through July, 2016
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	127,522	343	93.42
Blewett CT	-122	59	97.63
Darlington CT	75,798	808	93.54
Richmond County CT	2,959,903	838	86.95
Sutton CT	-557	67	93.37
Wayne County CT	333,439	903	91.28
Weatherspoon CT	203	143	96.90

Units in commercial operation for the full month are presented.
Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

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**Twelve Month Summary
August, 2015 through July, 2016
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	91,567	27.0	76.90
Marshall	8,799	4.0	49.80
Tillery	208,922	84.0	98.23
Walters	319,484	113.0	75.70

Duke Energy Progress
Merger-Related Fuel Savings
Month Ending:
Dollars reported in (\$)

July 2016

Schedule 11

		Gross Savings			Allocated Savings		DE Progress
		DE Carolinas	DE Progress	Combined	DE Carolinas	DE Progress	SC Retail portion
1	Joint Dispatch	\$ 1,411,939	\$ 118,050	\$ 1,529,989	\$ 950,170	\$ 579,819	\$ 56,353
2	Coal Blending	733,859	-	733,859	454,100	279,759	27,190
3	Coal Procurement	1,193,805	1,383,131	2,576,936	1,591,432	985,504	95,782
4	Coal Transportation	1,185,004	1,463,903	2,648,907	1,637,961	1,010,946	98,254
5	Reagent Procurement & Transportation	234,204	157,425	391,629	241,758	149,871	14,566
6	By-products	131,250	140,357	271,607	167,695	103,912	10,099
7	Natural Gas Capacity	199,472	-	199,472	123,283	76,189	7,405
8	Natural Gas Trading	35,954	-	35,954	22,232	13,722	1,334
9	Nuclear Fuel	-	-	-	36	(36)	(3)
10	Other Fuel-related	-	-	-	-	-	-
		<u>\$ 5,125,487</u>	<u>\$ 3,262,866</u>	<u>\$ 8,388,353</u>	<u>\$ 5,188,668</u>	<u>\$ 3,199,685</u>	<u>\$ 310,979</u>

Resource ratio % 62.10% 37.90% 100.00%

Allocation % 9.72%

Twelve Months Ending: July 2016

		Gross Savings			Allocated Savings		DE Progress
		DE Carolinas	DE Progress	Combined	DE Carolinas	DE Progress	SC Retail portion
1	Joint Dispatch	\$ 34,871,566	\$ 5,461,987	\$ 40,333,553	\$ 23,870,128	\$ 16,463,425	\$ 1,733,789
2	Coal Blending	30,107,657	-	30,107,657	18,010,140	12,097,517	1,282,122
3	Coal Procurement	18,884,359	18,200,143	37,084,502	22,308,422	14,776,080	1,581,125
4	Coal Transportation	15,640,789	13,946,261	29,587,050	17,711,974	11,875,076	1,229,008
5	Reagent Procurement & Transportation	2,788,668	983,793	3,772,461	2,267,607	1,504,854	161,117
6	By-products	1,560,419	1,350,360	2,910,779	1,740,348	1,170,431	122,525
7	Natural Gas Capacity	22,639,800	-	22,639,800	13,507,615	9,132,185	951,545
8	Natural Gas Trading	431,448	-	431,448	257,444	174,004	18,258
9	Nuclear Fuel	9,800	-	9,800	5,949	3,851	362
10	Other Fuel-related	-	-	-	-	-	-
		<u>\$ 126,934,506</u>	<u>\$ 39,942,544</u>	<u>\$ 166,877,050</u>	<u>\$ 99,679,627</u>	<u>\$ 67,197,423</u>	<u>\$ 7,079,851</u>

Total-to-date: July 2016

		Target	Gross Savings			Allocated Savings		DE Progress
			DE Carolinas	DE Progress	Combined	DE Carolinas	DE Progress	SC Retail portion
1	Joint Dispatch	\$ 318,955,000	\$ 125,275,539	\$ 80,785,237	\$ 206,060,776	\$ 125,164,025	\$ 80,896,751	\$ 8,879,018
2	Coal Blending	259,800,000	166,994,021	-	166,994,021	101,663,694	65,330,327	7,233,096
3	Coal Procurement	45,950,000	59,129,433	59,304,831	118,434,264	71,970,138	46,464,126	5,155,653
4	Coal Transportation	30,395,000	48,997,759	42,859,427	91,857,186	55,761,922	36,095,264	3,981,028
5	Reagent Procurement & Transportation	12,800,000	9,939,842	4,916,915	14,856,757	9,032,745	5,824,012	641,687
6	By-products		4,260,265	5,491,078	9,751,343	5,908,370	3,842,973	422,998
7	Natural Gas Capacity	16,900,000	74,025,126	-	74,025,126	44,343,097	29,682,029	3,206,519
8	Natural Gas Trading	2,000,000	1,761,746	-	1,761,746	1,072,157	689,589	75,913
9	Nuclear Fuel		62,300	7,397,198	7,459,498	4,636,765	2,822,733	317,694
10	Other Fuel-related		6,662,997	-	6,662,997	4,179,784	2,483,213	296,963
		<u>\$ 686,800,000</u>	<u>\$ 497,109,028</u>	<u>\$ 200,754,686</u>	<u>\$ 697,863,714</u>	<u>\$ 423,732,697</u>	<u>\$ 274,131,017</u>	<u>\$ 30,210,569</u>